

SEQUENCE LISTING

<110> Cahoon, Rebecca E.

<120> Vitamin B Metabolism Proteins

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<212> DNA

<213> Zea mays

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<211> 267

<212> PRT

<213> Zea mays

<400> 2

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      20              25              30
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 Asp Ser Ile Arg Pro Glu Val Lys Leu Phe Tyr Ser Ser Gln Gly Ser 100 105 110
 Lys Ile Ser Asp Lys Ser His Asn Gln Glu Thr Thr Asp Leu His Lys 115 120 125
 Cys Ile Ser Arg Ile His His Cys Thr Pro Asp Asp Glu Lys Pro Asn 130 135 140
 Leu Cys Val Leu Val Thr Gly Ala Leu Gly Gly Arg Phe Asp His Glu 145 150 155 160
 Ala Ala Asn Ile Asn Val Leu Tyr Leu Phe Ser Asp Met Arg Ile Val 165 170 175
 Leu Leu Ser Asp Asp Cys Leu Ile Arg Leu Leu Pro Arg Thr His Arg 180 185 190
 His Glu Leu Tyr Ile Glu Ser Ser Val Glu Gly Pro His Cys Gly Leu 195 200 205
 Phe Pro Val Gly Ala Pro Ser Thr Ser Thr Thr Thr Thr Gly Leu Lys 210 215 220
 Trp Asn Leu Ser Glu Ser Lys Met Arg Phe Gly Ser Met Ile Ser Thr 225 230 235 240
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 35 40 45
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 35 40 45
 Val Gly Phe Ile His Lys Gly Phe Val Glu His Leu Arg Gly Phe Gly
 50 55 60
 Asn Val Phe Ile Phe Pro Lys Asp Lys Tyr Asn Gly Gly Phe Tyr Gly
 65 70 75 80
 Asp Phe Val Ser Leu His Pro Met Leu Lys Thr Ala Glu Glu Arg Thr
 85 90 95
 Ser Ala Val Gly Tyr Val Val Glu Arg Leu Gly Glu Glu His Ile Pro
 100 105 110
 Gly Ile Arg Asn Glu Leu Tyr Pro Val Ile Ser Ser Phe Gly Ala Gln
 115 120 125
 Ile Phe Phe Ser Leu Glu Arg Ala Ala Ala Pro Tyr Phe Gly Ile Lys
 130 135 140
 Val Tyr Gly Thr Gln Met Asn Gly Cys Val Glu Leu Asp Gly Gln Lys
 145 150 155 160
 His Leu Trp Ile Gly Lys Arg Ser Gly Thr Lys Ser Thr Tyr Pro Gly
 165 170 175
 Met Leu Asp Glu Leu Val Ala Gly Gly Leu Pro His Gly Ile Asn Cys
 180 185 190
 Gln Gln Asn Leu Ala Lys Glu Cys Glu Glu Glu Ala Gly Ile Pro Arg
 195 200 205
 Ser Ile Ser Val Asn Ala Ile Pro Val Gly Ala Val Ser Tyr Lys Asp
 210 215 220
 Ile Asp Gly Tyr Arg Tyr Lys Arg Asp Val Leu Phe Cys Tyr Asp Leu
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 Lys Leu Pro Lys Asp Phe Ile Pro Lys Asn Lys Asp Gly Glu Val Asp
 245 250 255
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 260 265 270
 Thr Gln Phe Phe Lys Ala Asn Cys Ala Leu Val Ile Ile Asp Phe Leu
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<212> DNA
<213> Glycine max

<400> 7

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1406

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<212> PRT
<213> Glycine max

<400> 8

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Asn Gln Ser Leu Pro Arg Phe Ala Pro Leu Leu Trp Asp His Ala Gln
          35              40              45
Val Arg Val Cys Ala Asp Gly Gly Ala Asn Arg Val Tyr Asp Glu Met
          50              55              60
Pro Leu Phe Phe Pro His Gln Gln Pro Ser His Val Arg Thr Arg Tyr
          65              70              75              80
Lys Pro Asp Val Ile Lys Gly Asp Met Asp Ser Ile Arg Thr Glu Val
          85              90              95
Leu Asp Phe Tyr Ala Lys Leu Gly Thr Lys Ile Ile Asp Glu Ser His
          100             105             110
Asp Gln Asp Thr Thr Asp Leu His Lys Cys Val Ala Tyr Ile Arg Asp
          115             120             125
Leu Thr Pro Asn Ile Asp Gly Ala Glu Leu Cys Ile Leu Val Ala Gly

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130

135

140

Ala Leu Gly Gly Arg Phe Asp His Glu Ile Gly Asn Ile Asn Val Leu
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Cys Arg Phe Ser Asn Thr Arg Ile Ile Leu Leu Ser Asp Asp Cys Leu
 165 170 175

Ile His Leu Leu Pro Lys Asn His Cys His Lys Ile Phe Val Gln Ser
 180 185 190

Ser Val Glu Gly Pro His Cys Gly Val Ile Pro Ile Gly Met Pro Ser
 195 200 205

Gly Ser Ser Thr Thr Thr Gly Leu Lys Trp Asp Leu Asn Asp Ala Ala
 210 215 220

Met Ser Phe Gly Gly Leu Ile Ser Thr Ser Asn Ile Val Lys Gly Glu
 225 230 235 240

Ile Val Thr Val Gln Ser Asp Ser Asp Leu Leu Trp Thr Ile Ser Ile
 245 250 255

Lys Lys Leu